Docket No. BOC9-1999-0092 (145)

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re-Application of Brocious, et al.

Serial No.:

09/770,577

Examiner:

Smits, Talivaldis I.

Confirmation No.:

7601

Date Filed:

January 26, 2001

Group:

2641

For:

SPEECH AUTO-COMPLETION FOR PORTABLE DEVICES

**DECLARATION UNDER 37 C.F.R. § 1.131** 

Commissioner for Patents Washington, DC 20231

SEP 0 8 2003

**Technology Center 2600** 

Sir:

- I, Jonathan L. Gabel, a citizen of the United States of America, residing at 1413 Kenilworth Avenue, Charlotte, NC 28203, hereby declare and state as follows:
- 1. I was employed by International Business Machines Corporation (IBM) in Armonk, New York at the time the above-identified application was conceived. I make this declaration in support the above-identified application.
- 2. IBM had invested substantial time and effort into the research, development, and marketing of their products, and in an effort to protect its rights in all new inventions, IBM requests that all employees prepare and submit confidential Invention Disclosure Forms upon conception by the inventor(s).
- 3. As a named co-inventor for this invention, I submitted the attached Invention Disclosure No. BOC8-1999-0095 together with my co-inventors, Larry A. Brocious, David C. Loose, Ronald E. Van Buskirk, Huifang Wang and Steven G. Woodward.
- I make this Declaration to establish that the other co-inventors and I conceived of the present invention at least as early as August 18, 1999, and exercised due diligence from that date to January 26, 2001, the filing date for the above-identified patent application.
- I further declare that all statements made herein of my own knowledge are true and all statements made on Information and belief are believed to be true and

Certificat	e Und	er 37	CFR	1.8(a)	
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ited States Postal Service with I hereby certify that this comsufficient postage as first class mall in an envelope addressed to: Commissioner for Patents, Washington, DC 20231, or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Date

T. Cuenot, Esquire

Reg. No. 48,283

(WP137704:2)

Declaration Under 37 C.F.R. §1.31 U.S. Patent Appln. No. 09/770,577

Docket No. BOC9-1999-0092 (145)

further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the United States Code, and that such willful, false statements may Jeopardize the validity of the above-identified patent application or any patent issuing thereon.

onathan L. Gabel

Date: 4/29/03

STATE OF NORTH CAROLINA )

SECOUNTY OF Meckler burg )

The foregoing instrument was sworn to and subscribed before me this 29 day of August, 2003, by Jonathan L. Gabel, who is personally known to mear who has produced.

(type of Identification) as identification.

NOTARY PUBLIC, STATE OF NORTH CAROLINA

MY COMMISSION EXPIRES November 1, 2004 (Print, Type or Stamp Commissioned Name of Notary

Public)

(WP137704:2)



# Disclosure BOC8-1999-0095

Created By: Ron Van Buskirk Created On: 08/11/99 12:37:08 PM

Last Modified By: Ron Van Buskirk Last Modified On: 08/18/99 04:56:18 PM

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Required fields are marked with the asterisk (\*) and must be filled in to complete the form .

## Summary

Status	Under Evaluation
<b>Processing Location</b>	BOC
Functional Area	Speech Development & Customization (O. Osborne)
Attorney/Patent	Richard Tomlin/Boca Raton/IBM
Professional	
IDT Team	Tom Rutherfoord/West Palm Beach/IBM
Submitted Date	08/13/99 04:54:55 PM
Owning Division	SWG
PVT Score	To calculate a PVT score, use the 'Calculate PVT' button.

#### Inventors with Lotus Notes IDs

Inventors: Ron Van Buskirk/West Palm Beach/IBM, Larry Brocious/Endicott/IBM, David Loose/Austin/IBM, Steve Woodward/West Palm Beach/IBM, Jonathan L Gabel/Charlotte/IBM, Huifang Wang/West Palm Beach/IBM

Inventor Name	Inventor		Manager		
> denotes primary contact	Serial	Div/Dept	Serial	Manager Name	
> VanBuskirk, R.E. (Ron)	689867	9T/A26A	375209	Nassiff, Amado	· 4.
Brocious, L.A. (Larry)	313412	45/TMTG	807623	Kittle, B.M. (Betty)	
Loose, D.C. (David)	458340	45/MD7A	162624	Maieli, Michael V.	÷.
Woodward, Steven G. (Steve)	577183	9T/A26A	375209	Nassiff, Amado	
Gabel, Jonathan L.	2A5029	45/UTXA	414862	Bettegowda, B. N.	
Wang, Huifang	845300	9T/A26A	375209	Nassiff, Amado	

# **Inventors without Lotus Notes IDs**

## **IDT Selection**

IDT Team:	Attorney/Patent Professional:
Tom Rutherfoord/West Palm Beach/IBM	Richard Tomlin/Boca Raton/IBM

# Response Due to IP&L: 09/17/99

#### Main Idea

## \*Title of disclosure (in English)

Speech Autocompletion For Embedded Devices

#### \*idea of disclosure

1. Describe your invention, stating the problem solved (if appropriate), and indicating the advantages of using the invention.

One of the problems with small handheld devices is that it is difficult to enter data into them because they do not have a full-size keyboard. Speech recognition is an excellent solution. Unfortunately speech recognition on small devices is often limited because of the low processing power that these devices have. A speech recognition engine might support 200 phrases but this doesn't help if the user has to select from



a list of 1000 possibilities. This invention allows the user to manually filter a large list of possibilities by using a slower, entry method until the list has been filtered down to a small enough set for an embedded speech recognition engine to allow the user to select from by voice.

This method is much faster than many text entry methods currently employed.

2. How does the invention solve the problem or achieve an advantage, (a description of "the invention", including figures inline as appropriate)?

As an example of the invention imagine if the user had to pick a street name from a city such as Miami which has 10,000 street names, but the recognizer only can contain 250 entries. The user would be prompted to input data with a slower alphabetic entry method (handwriting recognition, speech alphabet spelling, on-screen keyboard, menu selection, etc.) If the user's destination was a street called Poinciana Blvd they would begin by entering P - O -.... As they entered each letter it would narrow down the possibilities. For example there are 1,000 streets that begin with P, and 125 streets that begin with PO.

When the number of streets was sufficiently narrowed by entering the text, it would preferably beep, or otherwise notify the user that at any point they could speak the rest of the phrase rather than going through the cumbersome text entry method.

- 3. If the same advantage or problem has been identified by others (inside/outside IBM), how have those others solved it and does your solution differ and why is it better?

  Others have solved the problem of selecting from a list with an embedded recognizer with limited processing power with three methods:
- (1) By forcing the user to spell out the word, using either a military alphabet or using the standard alphabet and matching the recognized letters to the closest match in the database.
- (2) Through the use of a set of menus.
- (3) By forcing the user to use only manual entry.
- 4. If the invention is implemented in a product or prototype, include technical details, purpose, disclosure details to others and the date of that implementation. Not implemented to date.

On what date was the invention workable? 08/03/99 Please format the date as MM/DD/YYYYY

## \*Critical Questions ( Questions 1 - 7 must be answered)

# \*Question 2 Is there any planned or actual publication or disclosure of your invention to anyone outside № No IBM? If yes, Enter the name of each publication or patent and the date published below. Publication/Patent: Date Published or Issued: Are you aware of any publications, products or patents that relate to this invention? If yes, Enter the name of each publication or patents that relate to this invention? Yes No If yes, Enter the name of each publication or patent and the date published below. Publication/Patent: Date Published or Issued:

\*Question 1

\*

Has the subject matter of the invention or a product incorporating the invention been sold, used Internally in manufacturing, announced for sale, or included in a proposal?  Is a sale; use in manufacturing, product announcement, or proposal planned?  If Yes, identify the product if known and indicate the date or planned date of sale, announcements, or proposal and to whom the sale, announcement or proposal has been or will be made. Product  Version/Release:  Code Name:  Date:  To Whom:  If more than one, use cut and paste and append as necessary in the field provided.  *Question 4  Was the subject matter of your invention or a product incorporating your invention used in public, e.g., outside IBM or in the presence of non-IBMers?  If yes, give a date. Please format the date as MM/DD/YYYY  *Question 5  Have you ever discussed your invention with others not employed at IBM?  *Question 6  Was the individuals and date discussed. Fill in the text area with the following information, the names of the individuals, the employer, date discussed, under CDA, and CDA #  *Question 6  Was the invention, in any way, started or developed under a government contract or project?  *Question 7  Was the invention made in the course of any alliance, joint development or other contract activities?  If Yes, enter the following: Name of Alliance, Contractor or Joint Developer  Contract ID number  Relationship contact name  Relationship contact name  Relationship contact name  Relationship contact phone		<u> </u>
Is a sale; use in manufacturing, product announcement, or proposal planned?  Yes  No  No  No  No  No  Yes  No  No  Product  YeshorNelease: Code Name: Date: To Whom: If more than one, use cut and paste and append as necessary in the field provided.  *Question 4  Was the subject matter of your invention or a product incorporating your invention used in public, e.g., outside IBM or in the presence of non-IBMers?  If yes, give a date. Please format the date as MM/DD/YYYYY  *Question 5  Have you ever discussed your invention with others not employed at IBM?  If yes, identify individuals and date discussed. Fill in the text area with the following information, the names of the individuals, the employer, date discussed, under CDA, and CDA #.  *Question 6  Was the invention, in any way, started or developed under a government contract or project?  *Question 7  Was the invention made in the course of any alliance, joint development or other contract or project?  Yes No No Not sur  Not Sur  Yes, enter the following :Name of Alliance, Contractor or Joint Developer  Contract ID number  Relationship contact name  Relationship contact name  Relationship contact phone  Question 8  Have you submitted, or are you aware of, any related disclosure submission?		O Yes ● No
If Yes, identify the product if known and indicate the date or planned date of sale, announcements, or proposal and to whom the sale, announcement or proposal has been or will be made. Product:  Version/Release: Code Name: Date: To Whom: If more than one, use cut and paste and append as necessary in the field provided.  *Question 4  Was the subject matter of your invention or a product incorporating your invention used in public, e.g., outside IBM or in the presence of non-IBMers?  If yes, give a date. Please format the date as MM/DD/YYYY  *Question 5  Have you ever discussed your invention with others not employed at IBM?  If yes, identify individuals and date discussed. Fill in the text area with the following information, the names of the individuals, the employer, date discussed, under CDA, and CDA #.  *Question 6  Was the invention, in any way, started or developed under a government contract or project?  *Question 7  Was the invention made in the course of any alliance, joint development or other contract activities?  If Yes, enter the contract number  *Question 7  Was the invention made in the course of any alliance, joint development or other contract activities?  If Yes, enter the following :Name of Alliance, Contractor or Joint Developer  Contract ID number  Relationship contact number  Relationship contact E-mail  Relationship contact E-mail  Relationship contact E-mail  Relationship contact Temple Please of the provided in the provide		<del>                                     </del>
If Yes, identify the product if known and indicate the date or planned date of sale, announcements, or proposal and to whom the sale, announcement or proposal has been or will be made.  Product:  Version/Release: Code Name: Date: To Whom: If more than one, use cut and paste and append as necessary in the field provided.  **Question 4** Was the subject matter of your invention or a product incorporating your invention used in public, e.g., outside IBM or in the presence of non-IBMers?  If yes, give a date. Please format the date as MM/DD/YYYY  **Question 5** Have you ever discussed your invention with others not employed at IBM?  If yes, identify individuals and date discussed. Fill in the text area with the following information, the names of the individuals, the employer, date discussed, under CDA, and CDA #.  **Question 6** Was the invention, in any way, started or developed under a government contract or project?  **Question 7** Was the invention made in the course of any alliance, joint development or other contract or project?  **Question 7** Was the invention made in the course of any alliance, joint development or other contract or Contract ID number Relationship contact name Relationship contact name Relationship contact E-mail Relationship contact B-mail Relationship contact E-mail	Is a sale; use in manufacturing, product announcement, or proposal planned?	
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Manufacturers of workstations	* * * * * * * * * * * * * * * * * * * *					
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Embedded device manufacturers		*				

Patent Value Tool (Optional - this may be used by the inventor and attorney to assist with the evalu Post Disclosure Text & Drawings

(Form Revised 12/17/97)



Definite, specify product, version etc.)

# IP&L Disclosure Evaluation: BOC8-1999-0095

Created By: Tom Rutherfoord Created On: 12/09/99 03:13:46 PM

Last Modified By: Tom Rutherfoord Last Modified On: 12/09/99 03:19:51 PM

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IBM CONFIDENTIAL - PREPARED BY/AT REQUEST OF IBM ATTORNEY - PRIVILEGE REVIEW REQUIRED Title: Speech Autocompletion For Embedded Devices Response Due to IP&L: **Date Evaluation Submitted:** 09/17/99 12/09/99 **Evaluator Disclosure Instructions** FACTOR 1 O Subject Matter not new TECHNICAL CONTRIBUTION Minor Variation from Known technology ( Consider all Known publications/products - IBM and External ) Significant Departure from Known technology Major Advance in technology Reason (s) for above Answer (please specify any technology authors mention pre-existing methods known to the inventor or the evaluator and explain its relevance) **FACTOR 2 - CHARACTER OF PROBLEM** O No real problem existed SOLVED Minor problem. Suitable alternatives available Significant problem. Alternatives have drawbacks Major problem. No feasible atternatives Explain the problem , including describing alternatives and their Embedded devices lack resources to support large-vocabulary drawbacks, and any advantages of this invention. What is the most speech recognition. Authors present clever method of getting hints important aspect of the disclosure and the most important from end user that winnow the vocabulary. This makes something advantages/disadvantages in your view? possible that otherwise would not be. Another of looking at it: this new method achieves higher accuracy, as hints from end user tell embedded device which words to ignore when trying to match voice input to internal vocabulary. Do others beside IBM face the problem? Yes O No. Why so? anyone using embedded devices for do something that has large vocabluary FACTOR 3 - USE BY IBM Unlikely Probable O Very likely O Definite Reason(s) for above answer: (Be specific. If use is Probable or

FACTOR 4 - USE BY OTHERS	( 11-18-4
	○ Unlikely ● Probable
	○ Probable ○ Very Ilkely
	Operinite
Reason(s) for above answer: (If use is Probable or Definite, please	handheld devices that do voice reco will benefit from
specify why the innovation will be used by others, which type of companies and which type of products).	uney support applications with large vocabularies - pr
	(people, cities, streets) especially
FACTOR 5 - DISCOVERY OF NON-IBM (NI) USE	
Si Mole-IDM (M) OSE	NI must admit use for IBM to know
	<ul> <li>"Teardown" of NI product would be necessary</li> <li>Careful analysis of NI product or manual requil</li> </ul>
	Lisa phylogis to resual pheening
Reason(s) for above answer (how would we detect use of invention others)?	authors describe a user input method, observable
<u> </u>	
FACTOR 6 - ADEQUACY OF DESCRIPTION	O Inadeqate: Invention unclear from description
	Incomplete Invention aspect poorly described of
	Further clarification or implementation detail ne
Reason(s) for above answer.	Clear and complete as is
FACTOR 7 - PEOPLE CONSULTED	O Yes O No
FACTOR 7 - PEOPLE CONSULTED Inventors (s)  If "No", please give the reason(s) why inventor(s) were not	O Yes ● No clearly presented as is
FACTOR 7 - PEOPLE CONSULTED Inventors (s)  If "No", please give the reason(s) why inventor(s) were not consulted.	O Yes ● No clearly presented as is
FACTOR 7 - PEOPLE CONSULTED Inventors (s) If "No", please give the reason(s) why inventor(s) were not consulted. Name others consulted:	clearly presented as is
FACTOR 7 - PEOPLE CONSULTED Inventors (s)  If "No", please give the reason(s) why inventor(s) were not consulted.  Name others consulted:  Discussed evaluation and recommendation with inventors?	
FACTOR 7 - PEOPLE CONSULTED Inventors (s) If "No", please give the reason(s) why inventor(s) were not consulted. Name others consulted:	clearly presented as is
FACTOR 7 - PEOPLE CONSULTED Inventors (s)  If "No", please give the reason(s) why inventor(s) were not consulted.  Name others consulted:  Discussed evaluation and recommendation with inventors?  Evaluator Decision Instructions	clearly presented as is
FACTOR 7 - PEOPLE CONSULTED Inventors (s)  If "No", please give the reason(s) why inventor(s) were not consulted.  Name others consulted:  Discussed evaluation and recommendation with inventors?  Evaluator Decision Instructions	clearly presented as is  ○ Yes ● No
FACTOR 7 - PEOPLE CONSULTED Inventors (s) If "No", please give the reason(s) why inventor(s) were not consulted. Name others consulted: Discussed evaluation and recommendation with inventors?  Evaluator Decision Instructions  Evaluator Recommended Decision:	clearly presented as is
FACTOR 7 - PEOPLE CONSULTED Inventors (s) If "No", please give the reason(s) why inventor(s) were not consulted. Name others consulted: Discussed evaluation and recommendation with inventors?  Evaluator Decision Instructions	Clearly presented as is  ○ Yes ● No  ○ Close
FACTOR 7 - PEOPLE CONSULTED Inventors (s) If "No", please give the reason(s) why inventor(s) were not consulted. Name others consulted: Discussed evaluation and recommendation with inventors?  Evaluator Decision Instructions  Evaluator Recommended Decision:	Clearly presented as is  Yes No  Close Publish
FACTOR 7 - PEOPLE CONSULTED Inventors (s) If "No", please give the reason(s) why inventor(s) were not consulted. Name others consulted: Discussed evaluation and recommendation with inventors?  Evaluator Decision Instructions  Evaluator Recommended Decision:	Clearly presented as is   ○ Yes  No  Close ○ Publish ● Search